

What is claimed is:

1. An apparatus in a host in a network of a plurality of hosts, the host and the plurality of hosts having
5 an RDMA function, comprising:
 - a unit sending a first message indicating the host boots, to all of the plurality of hosts in the network when the host in the network boots;
 - a unit disabling RDMA access from the plurality
10 of hosts to the host;
 - a unit responding to the first message by sending to the host a second message; and
 - a unit sending a third message indicating the host is ready to accept RDMA access from the plurality of
15 hosts, to all of the plurality of hosts after the second messages from all of the plurality of hosts have been received and the RDMA function is enabled.
2. The apparatus according to claim 1, which is
20 included in a driver of the host.
3. The apparatus according to claim 1, further comprising:
 - a translation and protection table unit having
25 information for making an RDMA access to another host,

and

wherein when the first message is received, the information about the host which sent the first message is cleared from the translation and protection table 5 unit in order to make RDMA access to the host impossible.

4. The apparatus according to claim 3, wherein the translation and protection tables in the plurality of hosts are updated after the third message 10 is sent to the plurality of hosts.

5. The apparatus according to claim 1, wherein the second message is one of acknowledgment, non-acknowledgment and the first message sent from one 15 of the plurality of hosts and the non-acknowledgment is generated by hardware.

6. The apparatus according to claim 1, wherein whether the second message has been received from 20 all of the plurality of hosts or not is tracked and determined by a replied set which comprises a sequence of 0s and 1s.

7. The apparatus according to claim 1, wherein 25 the host is installed with a network interface

card which has the RDMA function and another message communicating function, and initialization of the RDMA function and another message communicating function is conducted independently.

5

8. A method in a host in a network comprising a plurality of hosts, the host and the plurality of hosts having an RDMA function, comprising:

10 sending a first message indicating the host boots, to all of the plurality of hosts in the network when the host in the network boots;

disabling RDMA access from the plurality of hosts to the host;

15 responding to the first message by sending to the host a second message; and

20 sending a third message indicating the host is ready to accept an RDMA access from the plurality of hosts, to all of the plurality of hosts after the second messages from all of the plurality of hosts has been received and the RDMA function is enabled.

9. The method according to claim 8, which is executed in a driver of the host.

25 10. The method according to claim 8, further

comprising:

storing information for making an RDMA access to another host, and

wherein when the first message is received the
5 information about the host which sent the first message is cleared from the information stored in the storing step in order to make RDMA access to the host impossible.

11. The method according to claim 10, wherein
10 the information stored in the storing step in the plurality of hosts is updated after the third message is sent to the plurality of hosts.

12. The method according to claim 8, wherein
15 the second message is one of acknowledgment, non-acknowledgment and the first message sent from one of the plurality of hosts and the non-acknowledgment is generated by a hardware.

20 13. The method according to claim 8, wherein whether the second message has been received from all of the plurality of hosts or not is tracked and determined by a replied set which comprises a sequence of 0s and 1s.

14. The method according to claim 8, wherein
the host is installed with an network interface
card which has the RDMA function and another message
communicating function, and initialization of the RDMA
5 function and another message communicating function is
conducted independently.